C.I.P.S.

MODELE MATHEMATIQUE
ETUDE DE LA POLLUTION
EN MER DU NORD.

TECHNICAL REPORT
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/This paper not to be cited without prior reference to the author./

ETUDE DU ZOOPLANCTON DE LA CROISIERE 03 (Septembre 7I)

par

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A. Composition qualitative, comme pour les croisières précédentes nous trouvons une similitude dans la composition qualitative. (fig 7 et 8)

1. Des points M01 à M58 (nauplii de cop. et cop.)
2. Des points M59 à M72 où nous retrouvons une plus grande variété d'organismes.

1.a) points M01 à M58

La diversité y est faible. Les nauplii de copépodes et copépodes se trouvent en pourcentage assez grand. En M53, point le plus au large, nous trouvons en plus des Tuniciers. Les points M54 et M55 à l'embouchure de l'Escaut sont riches en polychètes (lanice et polydores). Ces organismes peuvent être utilisés comme indicateurs de pollution.

1.b) Points M59 à M72

La composition qualitative est très variable d'un point à l'autre sauf pour les rotifères que nous trouvons en pourcentage assez grand en tous les points.

Les Tuniciers s'observent très proches des côtes ce qui pourrait nous faire penser à un mélange des eaux d'origines diverses (dont les eaux estuariennes).

B. Composition quantitative

1. Pour les points M01 à M62 nous trouvons une diminution en nombre de la côte vers le large sauf pour les points les plus proches de la côte M01, M54 et M59 où nous pouvons penser à une action inhibitrice due à l'apport des eaux du port de Dunkerque (M01) de l'Escaut (M54) et du delta de la Meuse et du Rhin (M59).

ZOO PLANCTON CRUISE . 3

STATION 01 M 01 070971 0915 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 11560
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 2.03
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 4.3
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= 1.03
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 2.19
DRY MAT.(G/M3) PARTICLES > 40 MICRONS 1.851
ASHES IDEM .999
ORG. MAT. IDEM .852
DIAGRAM CONSTRUCTION DRY MAT. :D= 3.702
DIAGRAM CONSTRUCTION ORG.MAT.:D= 1.704

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	2260		
OTHERS	260		
CNIDARIA	120	3	14
ACNIDARIA	160	4	19
NEMATHELMINT.	60	1	7
MOLLUSCA (L)	580	18	69
ANNELIDA (L)	440	13	52
CRUSTACEA	8660		
NAU.COP.	1980	61	
COPEPODS	6580	204	
N+C CIRR.	20	0	2
OTHERS	80	2	9
BRYOZOA (L)	520	16	62
CHAETOGNATHA	140	4	16
ECHINOD. (L)	160	4	19
TUNICATA	720	22	86
PISCES (OVA)	0	0	0

STATION 52 M 52 060971 2000 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 44760
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 4
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 8.46
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= 1.26
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 2.67
DRY MAT.(G/M3) PARTICLES > 40 MICRONS 2.284
ASHES IDEM 1.555
ORG. MAT. IDEM .729
DIAGRAM CONSTRUCTION DRY MAT. :D= 4.568
DIAGRAM CONSTRUCTION ORG.MAT.:D= 1.458

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	400		
OTHERS	480		
CNIDARIA	0	0	0
ACNIDARIA	0	0	0
NEMATHELMINT.	920	7	73
MOLLUSCA (L)	160	1	12
ANNELIDA (L)	460	3	36
CRUSTACEA	40440		
NAU.COP.	31740	255	
COPEPODS	8540	68	
N+C CIRR.	0	0	0
OTHERS	160	1	12
BRYOZOA (L)	0	0	0
CHAETOGNATHA	280	2	22
ECHINOD. (L)	0	0	0
TUNICATA	2500	20	200
PISCES (OVA)	0	0	0

STATION 53 M 53 030971 1045 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 9640
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 1.85
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 3.92
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .47
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 1.01
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .854
ASHES IDEM .363
ORG. MAT. IDEM .491
DIAGRAM CONSTRUCTION DRY MAT. :D= 1.708
DIAGRAM CONSTRUCTION ORG.MAT.:D= .982

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	100		
OTHERS	340		
CNIDARIA	0	0	0
ACNIDARIA	0	0	0
NEMATHELMINT.	440	16	247
MOLLUSCA (L)	60	2	33
ANNELIDA (L)	60	2	33
CRUSTACEA	7920		
NAU.COP.	3680	137	
COPEPODS	4180	156	
N+C CIRR.	20	0	11
OTHERS	40	1	22
BRYOZOA (L)	0	0	0
CHAETOGNATHA	20	0	11
ECHINOD. (L)	0	0	0
TUNICATA	1140	42	
PISCES (OVA)	0	0	0

STATION 54 M 54 200971 1900 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 4520
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 1.27
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 2.68
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .54
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 1.15
DRY MAT.(G/M3) PARTICLES > 40 MICRONS 6.914
ASHES IDEM 5.189
ORG. MAT. IDEM 1.725
DIAGRAM CONSTRUCTION DRY MAT. :D= 13.828
DIAGRAM CONSTRUCTION ORG.MAT.:D= 3.45

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	29220		
OTHERS	500		
CNIDARIA	100	7	42
ACNIDARIA	0	0	0
NEMATHELMINT.	20	1	8
MOLLUSCA (L)	260	20	111
ANNELIDA (L)	2520	200	
CRUSTACEA	1400		
NAU.COP.	100	7	42
COPEPODS	1160	92	
N+C CIRR.	60	4	25
OTHERS	80	6	34
BRYOZOA (L)	20	1	8
CHAETOGNATHA	0	0	0
ECHINOD. (L)	20	1	8
TUNICATA	180	14	77
PISCES (OVA)	0	0	0

STATION 55 M55 130971 1530 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 25580
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 3.02
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 6.39
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= 1.73
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 3.66
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .676
ASHES IDEM .225
ORG. MAT. IDEM .451
DIAGRAM CONSTRUCTION DRY MAT. :D= 1.352
DIAGRAM CONSTRUCTION ORG.MAT.:D= .902

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	6900		
OTHERS	0		
CNIDARIA	320	4	13
ACNIDARIA	0	0	0
NEMATHELMINT.	2000	28	85
MOLLUSCA (L)	1500	21	64
ANNELIDA (L)	5120	72	
CRUSTACEA	3700		
NAU.COP.	2020	28	86
COPEPODS	1660	23	71
N+C CIRR.	20	0	0
OTHERS	0	0	0
BRYOZOA (L)	280	3	12
CHAETOGNATHA	260	3	11
ECHINOD. (L)	340	4	14
TUNICATA	12060	169	
PISCES (OVA)	0	0	0

STATION 58 M58 090971 1500 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 7580
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 1.64
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 3.48
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .67
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 1.41
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .488
ASHES IDEM .059
ORG. MAT. IDEM .429
DIAGRAM CONSTRUCTION DRY MAT. :D= .976
DIAGRAM CONSTRUCTION ORG.MAT.:D= .858

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	100		
OTHERS	0		
CNIDARIA	20	0	5
ACNIDARIA	20	0	5
NEMATHELMINT.	120	5	34
MOLLUSCA (L)	20	0	5
ANNELIDA (L)	140	6	40
CRUSTACEA	6380		
NAU.COP.	2560	121	
COPEPODS	3760	178	
N+C CIRR.	0	0	0
OTHERS	60	2	17
BRYOZOA (L)	0	0	0
CHAETOGNATHA	100	4	28
ECHINOD. (L)	260	12	74
TUNICATA	520	24	148
PISCES (OVA)	0	0	0

STATION 59 M59 210971 1030 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 5160
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 1.35
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 2.87
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .59
DRY MAT.(G/M3) PARTICLES > 40 MICRONS 1.767
ASHES IDEM 1.181
ORG. MAT. IDEM .586
DIAGRAM CONSTRUCTION DRY MAT. :D= 3.534
DIAGRAM CONSTRUCTION ORG.MAT.:D= 1.172

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	40		
OTHERS	160		
CNIDARIA	80	5	29
ACNIDARIA	0	0	0
NEMATHELMINT.	2440	170	
MOLLUSCA (L)	500	34	183
ANNELIDA (L)	820	57	
CRUSTACEA	140		
NAU.COP.	80	5	29
COPEPODS	20	1	7
N+C CIRR.	20	1	7
OTHERS	20	1	7
BRYOZOA (L)	0	0	0
CHAETOGNATHA	200	13	73
ECHINOD. (L)	60	4	22
TUNICATA	920	64	
PISCES (OVA)	0	0	0

STATION 60 M60 160971 1325 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 14940
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 2.31
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 4.88
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .81
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 1.72
DRY MAT.(G/M3) PARTICLES > 40 MICRONS 1.131
ASHES IDEM .559
ORG. MAT. IDEM .572
DIAGRAM CONSTRUCTION DRY MAT. :D= 2.262
DIAGRAM CONSTRUCTION ORG.MAT.:D= 1.144

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	120		
OTHERS	60		
CNIDARIA	140	3	27
ACNIDARIA	0	0	0
NEMATHELMINT.	6540	157	
MOLLUSCA (L)	240	5	46
ANNELIDA (L)	160	3	30
CRUSTACEA	800		
NAU.COP.	560	13	108
COPEPODS	240	5	46
N+C CIRR.	0	0	0
OTHERS	0	0	0
BRYOZOA (L)	40	0	7
CHAETOGNATHA	400	9	77
ECHINOD. (L)	80	1	15
TUNICATA	6540	157	
PISCES (OVA)	0	0	0

STATION 61 M61 160971 2020 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 11220
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 2
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 4.23
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .9
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 1.9
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .444
ASHES IDEM .108
ORG. MAT. IDEM .336
DIAGRAM CONSTRUCTION DRY MAT. :D= .888
DIAGRAM CONSTRUCTION ORG.MAT.:D= .672

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	700		
OTHERS	0		
CNIDARIA	200	6	31
ACNIDARIA	0	0	0
NEMATHELMINT.	2020	64	
MOLLUSCA (L)	140	4	22
ANNELIDA (L)	160	5	25
CRUSTACEA	4380		
NAU.COP.	3580	114	
COPEPODS	800	25	126
N+C CIRR.	0	0	0
OTHERS	0	0	0
BRYOZOA (L)	120	3	18
CHAETOGNATHA	700	22	110
ECHINOD. (L)	160	5	25
TUNICATA	3340	107	
PISCES (OVA)	0	0	0

STATION 62 M62 100971 1200 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 2620
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= .96
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 2.04
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .41
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= .87
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .513
ASHES IDEM .137
ORG. MAT. IDEM .376
DIAGRAM CONSTRUCTION DRY MAT. :D= 1.026
DIAGRAM CONSTRUCTION ORG.MAT.:D= .752

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	40		
OTHERS	20		
CNIDARIA	40	5	30
ACNIDARIA	0	0	0
NEMATHELMINT.	560	76	
MOLLUSCA (L)	20	2	15
ANNELIDA (L)	20	2	15
CRUSTACEA	1120		
NAU.COP.	220	30	165
COPEPODS	860	118	
N+C CIRR.	0	0	0
OTHERS	40	5	30
BRYOZOA (L)	40	5	30
CHAETOGNATHA	400	54	
ECHINOD. (L)	100	13	75
TUNICATA	320	43	
PISCES (OVA)	0	0	0

STATION 63 M 63 220971 1100 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 3440
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 1.1
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 2.34
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .34
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= .73
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .364
ASHES IDEM .05
ORG. MAT. IDEM .314
DIAGRAM CONSTRUCTION DRY MAT. :D= .728
DIAGRAM CONSTRUCTION ORG.MAT.:D= .628

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	0		
OTHERS	20		
CNIDARIA	80	8	84
ACNIDARIA	0	0	0
NEMATHELMINT.	960	100	
MOLLUSCA (L)	20	2	21
ANNELIDA (L)	620	64	
CRUSTACEA	140		
NAU.COP.	120	12	127
COPEPODS	20	2	21
N+C CIRR.	0	0	0
OTHERS	0	0	0
BRYOZOA (L)	0	0	0
CHAETOGNATHA	100	10	105
ECHINOD. (L)	0	0	0
TUNICATA	1520	159	
PISCES (OVA)	0	0	0

STATION 66 M 66 140971 1830 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 5000
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 1.33
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 2.82
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .66
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 1.39
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .431
ASHES IDEM .13
ORG. MAT. IDEM .301
DIAGRAM CONSTRUCTION DRY MAT. :D= .862
DIAGRAM CONSTRUCTION ORG.MAT.:D= .602

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	0		
OTHERS	0		
CNIDARIA	1120	80	
ACNIDARIA	0	0	0
NEMATHELMINT.	2660	191	
MOLLUSCA (L)	340	24	100
ANNELIDA (L)	60	4	17
CRUSTACEA	620		
NAU.COP.	480	34	141
COPEPODS	140	10	41
N+C CIRR.	0	0	0
OTHERS	0	0	0
BRYOZOA (L)	0	0	0
CHAETOGNATHA	160	11	47
ECHINOD. (L)	20	1	5
TUNICATA	20	1	5
PISCES (OVA)	0	0	0

STATION 67 M 67 140971 1100 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 17800
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 2.52
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 5.33
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= 1.11
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .407
ASHES IDEM .174
ORG. MAT. IDEM .233
DIAGRAM CONSTRUCTION DRY MAT. :D= .814
DIAGRAM CONSTRUCTION ORG.MAT.:D= .466

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	460		
OTHERS	0		
CNIDARIA	320	6	33
ACNIDARIA	0	0	0
NEMATHELMINT.	6060	122	
MOLLUSCA (L)	220	4	22
ANNELIDA (L)	100	2	10
CRUSTACEA	7920		
NAU.COP.	6220	125	
COPEPODS	1680	33	173
N+C CIRR.	0	0	0
OTHERS	20	0	2
BRYOZOA (L)	20	0	2
CHAETOGNATHA	1000	20	103
ECHINOD. (L)	120	2	12
TUNICATA	2040	41	
PISCES (OVA)	0	0	0

STATION 68 M 68 230971 0945 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 2740
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= .98
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 2.09
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .42
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= .89
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .642
ASHES IDEM .225
ORG. MAT. IDEM .417
DIAGRAM CONSTRUCTION DRY MAT. :D= 1.284
DIAGRAM CONSTRUCTION ORG.MAT.:D= .834

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA			
NOCTILUCA	0		
OTHERS	0		
CNIDARIA	40	5	28
ACNIDARIA	0	0	0
NEMATHELMINT.	360	47	
MOLLUSCA (L)	80	10	57
ANNELIDA (L)	1880	247	
CRUSTACEA	40		
NAU.COP.	20	2	14
COPEPODS	0	0	0
N+C CIRR.	20	2	14
OTHERS	0	0	0
BRYOZOA (L)	20	2	14
CHAETOGNATHA	80	10	57
ECHINOD. (L)	20	2	14
TUNICATA	220	28	158
PISCES (OVA)	0	0	

STATION 70 M 70 230971 00

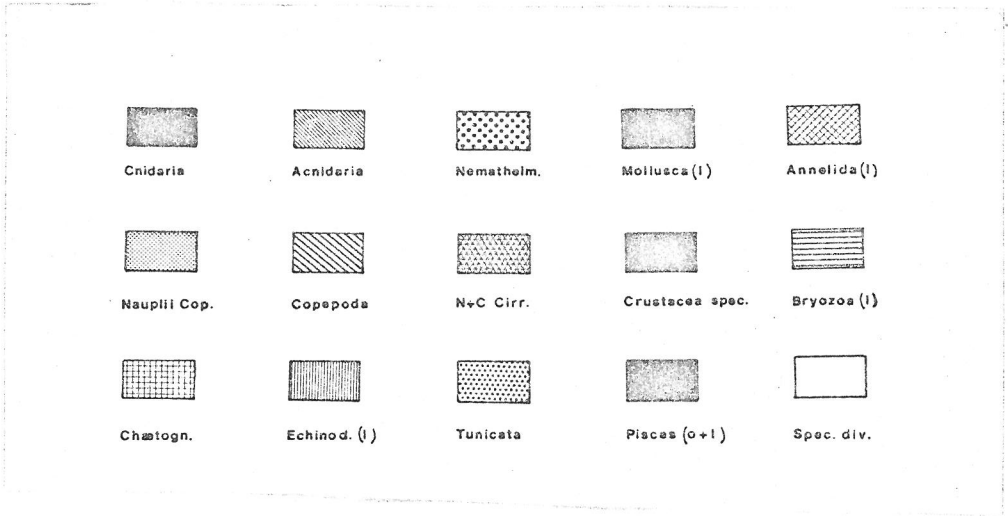
TOT.NUMB.INDIV./M3(PROT.EXCL.) 13140
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 2.16
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 4.58
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .43
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= .91
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .588
ASHES IDEM .195
ORG. MAT. IDEM .393
DIAGRAM CONSTRUCTION DRY MAT. :D= 1.176
DIAGRAM CONSTRUCTION ORG.MAT.:D= .786

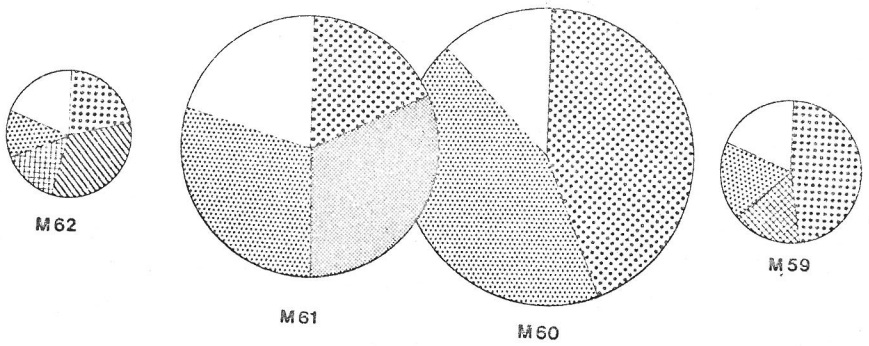
	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA	0		
NOCTILUCA	20		
OTHERS	20		
CNIDARIA	0	0	13
ACNIDARIA	7960	0	0
NEMATHELMINT.	100	218	
MOLLUSCA (L)	40	2	69
ANNELIDA (L)	2880	1	27
CRUSTACEA	2780		
NAU.COP.	100	76	
COPEPODS	0	2	69
N+C CIRR.	0	0	0
OTHERS	60	0	0
BRYOZOA (L)	120	1	41
CHAETOGNATHA	80	3	83
ECHINOD. (L)	1880	2	55
TUNICATA	0	51	
PISCES (OVA)		0	0

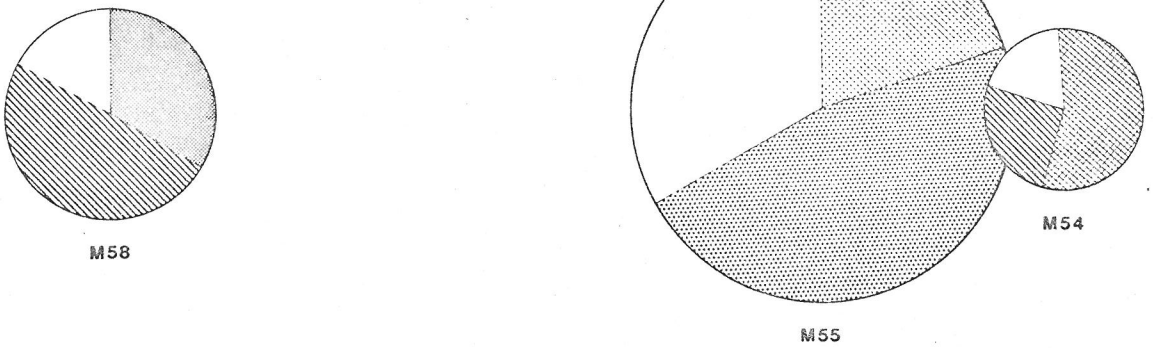
STATION 72 M 72 150971 1330 00

TOT.NUMB.INDIV./M3(PROT.EXCL.) 7280
DIAGRAM CONSTRUCTION (WITH MAX.AREA R=4CM):R= 1.61
DIAGRAM CONSTRUCTION (NO MAX.AREA):R= 3.41
DIAGRAM CONSTRUCTION (WITH MAX.AREA) ORGAN.-10PC:R= .89
DIAGRAM CONSTRUCTION (NO MAX.AREA) ORGAN.-10PC:R= 1.9
DRY MAT.(G/M3) PARTICLES > 40 MICRONS .168
ASHES IDEM .067
ORG. MAT. IDEM .101
DIAGRAM CONSTRUCTION DRY MAT. :D= .336
DIAGRAM CONSTRUCTION ORG.MAT.:D= .202

	TOT.NUMB./M3	TOT.ANG.REPR.	ANG.REPR.-10PC
PROTOZOA	140		
NOCTILUCA	0		
OTHERS	20		
CNIDARIA	20	0	3
ACNIDARIA	460	0	3
NEMATHELMINT.	0	22	73
MOLLUSCA (L)	0	0	0
ANNELIDA (L)	5640	0	0
CRUSTACEA	5020		
NAU.COP.	620	248	
COPEPODS	0	30	98
N+C CIRR.	0	0	0
OTHERS	0	0	0
BRYOZOA (L)	540	0	0
CHAETOGNATHA	240	26	86
ECHINOD. (L)	360	11	38
TUNICATA	0	17	57
PISCES (OVA)		0	0


Cnidaria
Acnidaria
Nemathelm.
Mollusca (l)
Annelida (l)
Nauplii Cop.
Copepoda
N+C Cirr.
Crustacea spec.
Bryozoa (l)
Chaetogn.
Echinod. (l)
Tunicata
Pisces (o+l)
Spec. div.





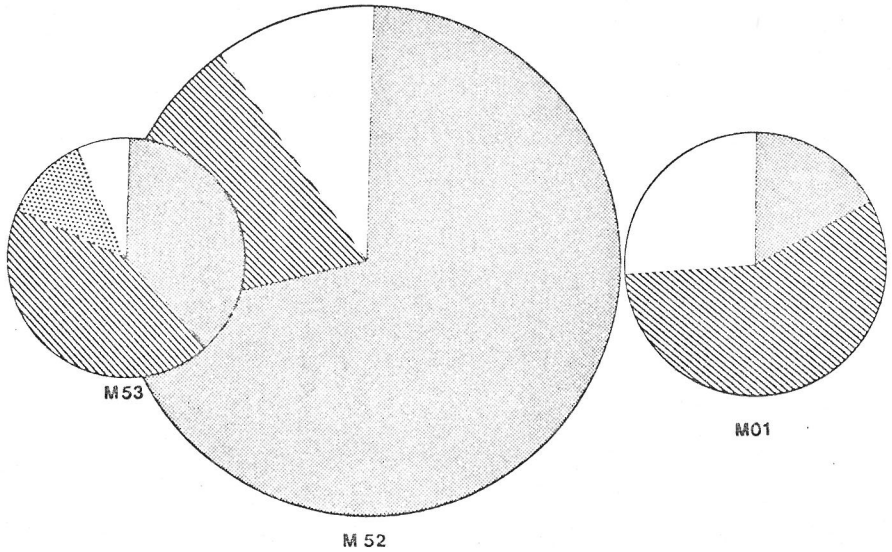
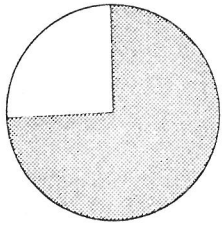
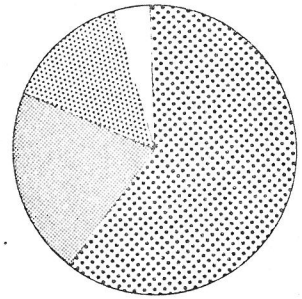


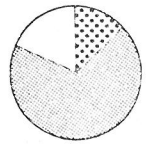
fig 7



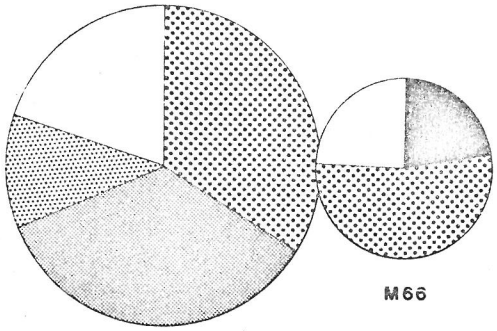
M72



M70

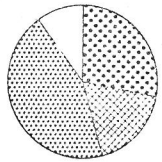


M68



M67

M66



M63

fig 8

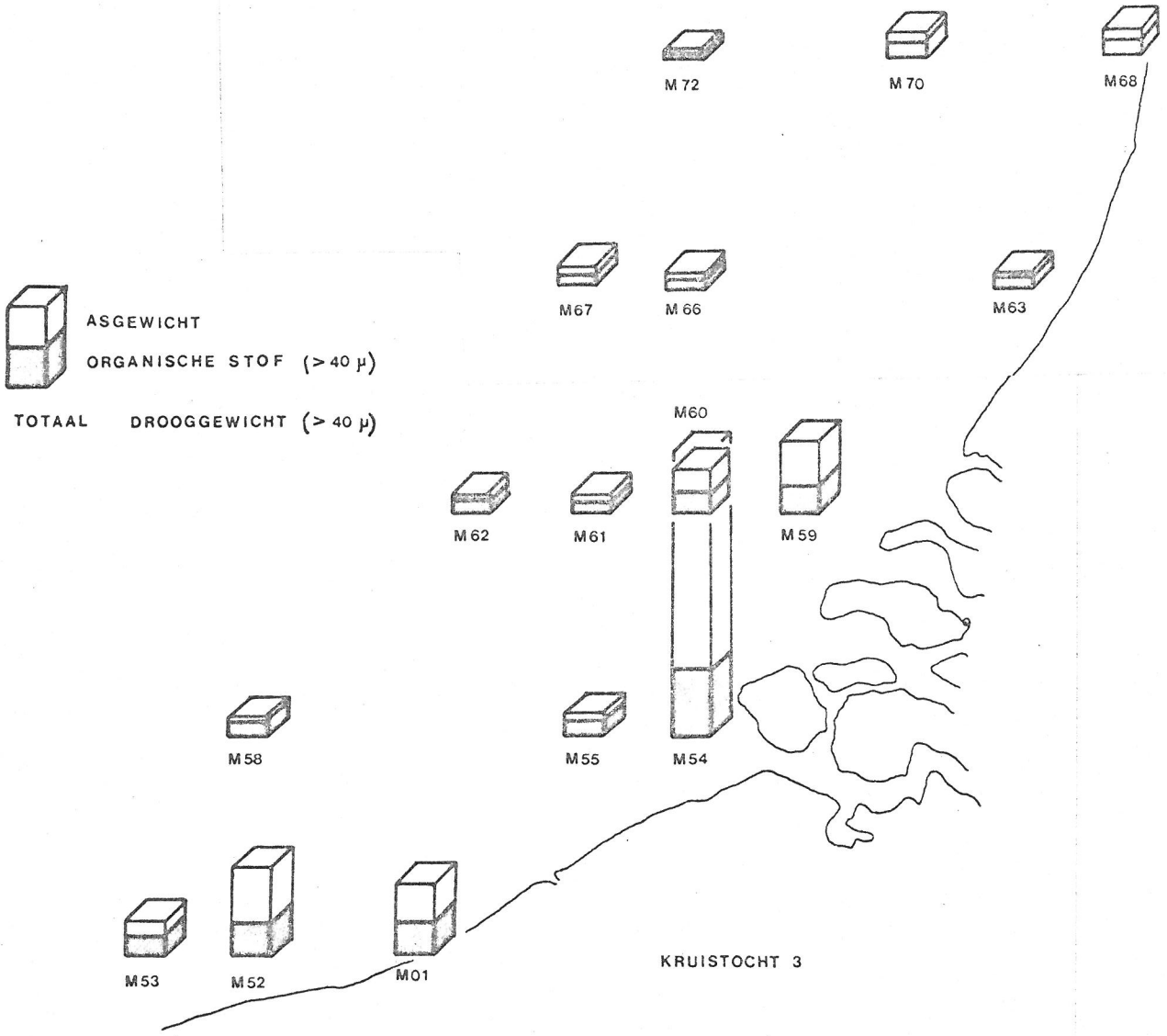

ASGEWICHT
ORGANISCHE STOF (> 40 µ)
TOTAAL DROOGGEWICHT (> 40 µ)
M72
M70
M68
M67
M66
M63
M60
M62
M61
M59
M58
M55
M54
M53
M52
M01
KRUISTOCHT 3

fig 9 at 10